



DORMITORY AUTHORITY - STATE OF NEW YORK
 515 Broadway
 Albany, New York 12207

NYS STATEMENT OF SPECIAL INSPECTIONS & TESTS
 Required by the Building Code of New York State (BCNYS)

BCNYS §1704.1.1 requires the project Registered Design Professional to complete the Statement of Special Inspections & Tests. Completion of the Statement of Special Inspections & Tests and submission to the Quality Assurance Code Compliance Unit with the Construction Permit Application is a condition for issuance of the Construction Permit. The Statement shall also be bound in the project manual in the Supplemental General Requirements for Section 014533.

Campus/Facility:

Project Title:

Project #:

DASNY Project Manager:

Registered Design Professional (RDP):

Name of Person Completing Statement:

Phone:

Date:

Comments:

INSPECTIONS AND TESTS (Continuous & Periodic is as defined by the BCNYS)	CONTINUOUS	PERIODIC	BCNYS REFERENCE	CHECK IF REQUIRED	SPECIFICATION REFERENCE AND CLARIFYING NOTES (by RDP) ¹	COMMENTARY/NOTES (by DASNY) ²
A. Inspection of Fabricators			1704.2 1704.2.1 1704.2.2	<input type="checkbox"/>		Review qualifications of fabricators and verify accreditations. Perform in-plant review where required, or as specified on the documents.
1. Structural Steel			1704.2, 1704.3, Table 1704.3	<input type="checkbox"/>		
2. Steel Joists			1704.2	<input type="checkbox"/>		
3. Precast Concrete			1704.2, 1704.4, Table 1704.4	<input type="checkbox"/>		
4. Wood Construction			1704.6	<input type="checkbox"/>		
B. Steel Construction			1704.3			
1. Material verification of high-strength bolts, nuts, and washers:			Table 1704.3	<input type="checkbox"/>		Includes submittal review and field verification.
a. Identification markings conform to ASTM standards specified in the approved construction documents		X		<input type="checkbox"/>		
b. Manufacturer's certificate of compliance required.		X		<input type="checkbox"/>		
2. Inspection of high-strength bolting:			Table 1704.3, 1704.3.3	<input type="checkbox"/>		Field inspection
a. Bearing type connection		X		<input type="checkbox"/>		
b. Slip critical type connection	X			<input type="checkbox"/>		

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3. Material verification of structural steel:			Table 1704.3	<input type="checkbox"/>		
a. Identification of markings		X		<input type="checkbox"/>		Field inspection. Assure conformance to ASTM standards specified in the approved documents.
b. Certified mill test reports		X		<input type="checkbox"/>		Review each submittal.
4. Material verification of weld filler materials		X	Table 1704.3	<input type="checkbox"/>		Includes (a) review of manufacturer's certificate of compliance and (b) field verification of identification markings to AWS specification.
5. Structural steel welding:			Table 1704.3 1704.3.1	<input type="checkbox"/>		Shop and field inspection. Non-destructive testing requirements and frequencies as specified in the contract documents.
a. Complete and partial penetration groove welds.	X			<input type="checkbox"/>		
b. Multi-pass fillet welds	X			<input type="checkbox"/>		
c. Single pass fillet welds >5/16"	X			<input type="checkbox"/>		
d. Single pass fillet welds < 5/16", floor and deck welds		X		<input type="checkbox"/>		
e. Floor and deck welds		X		<input type="checkbox"/>		
6. Reinforcing steel welding:			Table 1704.3, 1704.3.1	<input type="checkbox"/>		Shop and field inspections.
a. Verification of weldability of steel other than ASTM A706		X		<input type="checkbox"/>		
b. Reinforcing steel-resisting flexural and axial forces	X			<input type="checkbox"/>		
c. Shear reinforcement	X			<input type="checkbox"/>		
d. Other reinforcing steel		X		<input type="checkbox"/>		
7. Inspection of steel frame joint details for compliance with approved construction documents:			1704.3.2, Table 1704.3			Field inspection.
a. Details such as bracing and stiffening.		X		<input type="checkbox"/>		
b. Member locations		X		<input type="checkbox"/>		
c. Application of joint details at each connection.		X		<input type="checkbox"/>		
8. Verification of welder qualification/certification	X		2208.1	<input type="checkbox"/>		

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and welding procedures.						
C. Concrete Construction			1704.4			
1. Inspection of reinforcing steel installation.		X	Table 1704.4	<input type="checkbox"/>		Field inspection.
2. Inspection of pre-stressing steel installation.		X	Table 1704.4	<input type="checkbox"/>		In plant or field review.
3. Inspection of reinforcing steel welding in accordance w/ item 6b above.		X	Table 1704.4, 1704.4.1	<input type="checkbox"/>		Includes anchor bolt welding.
4. Inspection of bolts to be installed in cast-in-place concrete prior to and during placement.	X		Table 1704.4	<input type="checkbox"/>		Field inspection.
5. Verify use of required design mix and evaluation and acceptance of concrete and shotcrete.		X	Table 1704.4	<input type="checkbox"/>		Submittal review. Batch plant inspection as specified in the contract documents.
6. Sampling fresh concrete: slump, air content, temperature, strength test specimens.	X		Table 1704.4	<input type="checkbox"/>		Includes all field testing and evaluation of laboratory strength reports. Frequency of sampling and testing must be per the contract documents.
7. Inspection of concrete placement for proper application techniques.	X		Table 1704.4	<input type="checkbox"/>		Also includes precast and shotcrete placement. For precast inspection (in-plant) specify PCI-MNL116
8. Inspection for maintenance of specified curing temperature and techniques.		X	Table 1704.4	<input type="checkbox"/>		Field inspection of curing process.
9. Inspection of prestressed concrete:			Table 1704.4, 1704.2	<input type="checkbox"/>		In plant or field review required.
a. Application of pre-stressing forces	X			<input type="checkbox"/>		
b. Grouting of bonded pre-stressing tendons in the seismic-force-resisting system.	X			<input type="checkbox"/>		
10. Erection of precast concrete members.		X	Table 1704.4	<input type="checkbox"/>		Specify PCI-MNL127.
11. Verification of in-situ concrete strength prior to stressing of tendons in post tensioned concrete and prior to removal of shores and forms from beams and structural slabs.		X	Table 1704.4	<input type="checkbox"/>		Review field testing and laboratory reports.

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D. Masonry Construction (Check L1 or L2 below) <input type="checkbox"/> L1 = Level 1 Inspection <input type="checkbox"/> L2 = Level 2 Inspection			1704.5 Tables 1704.5.1 & 1704.5.3			See BCNYS 1704.5 for clarification of Level 1 vs. Level 2 inspection.
1. Verify the following to ensure compliance:			Tables 1704.5.1 & 1704.5.3			
a. Proportions of site prepared mortar and grout		X L1 L2		<input type="checkbox"/>		Submittal review and field verification.
b. Verify placement of masonry units and construction of mortar joints.		X L1 L2		<input type="checkbox"/>		Field inspection.
c. Location and placement of reinforcement, connectors, tendons, anchorages.		X L1 L2		<input type="checkbox"/>		Field inspection.
d. Pre-stressing technique and tendon installation.		X L1 L2		<input type="checkbox"/>		
e. Grade and size of tendons and anchorages.		X L1		<input type="checkbox"/>		
f. Grout specs prior to grouting.	X L2			<input type="checkbox"/>		
g. Grouting of prestressed bonded tendons.	X L1 L2			<input type="checkbox"/>		
2. Inspection program shall verify:			Tables 1704.5.1 & 1704.5.3			
a. Size and location of structural masonry elements & workmanship.		X L1 L2		<input type="checkbox"/>		Field and submittal review.
b. Type, size and location of anchors, including other details of anchorage of masonry to structural members, frames or other.	X L2	X L1		<input type="checkbox"/>		Field inspection.
c. Specified size, grade and type of reinforcement.		X L1 L2		<input type="checkbox"/>		Field inspection.
c. Welding of reinforcing bars.	X L1 L2			<input type="checkbox"/>		Field inspection.
d. Cold/hot weather protection of masonry construction.		X L1 L2		<input type="checkbox"/>		Field inspection.

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e. Pre-stressing force measurement and application.	X L2	X L1		<input type="checkbox"/>		Field inspection.
3. Verify grout space is clean prior to grouting.	X L2	X L1	Tables 1704.5.1 & 1704.5.3	<input type="checkbox"/>		Field inspection.
4. Verify grout placement complies with BCNYS and construction document provisions.	X L1 L2		Tables 1704.5.1, 1704.5.3	<input type="checkbox"/>		Grout placement shall be verified to ensure compliance with Code and construction document provisions.
5. Preparation of grout specimens, mortar specimens and prisms.	X L1 L2		Tables 1704.5.1 & 1704.5.3	<input type="checkbox"/>		Includes observation of contractors sampling and preparation of samples by the Special Inspection agent.
6. Verify compliance with inspection provisions of Construction Documents and approved submittals.		X L1 L2	Tables 1704.5.1 & 1704.5.3	<input type="checkbox"/>		Inspection and test requirements per the contract documents. Inspection(s) may need to be continuous.
E. Wood Construction:			1704.6			
1. Fabrication of wood structural elements and assemblies.			1704.2	<input type="checkbox"/>		Review fabricator qualifications and verify accreditations. Perform in-plant review, where specified.
F. Soils			1704.7			
1. Foundation subgrades	X		1704.7	<input type="checkbox"/>		All subgrades for buildings must be observed and verified prior to being covered by controlled fill or otherwise obscured by the placement of forms, reinforcing steel or concrete.
2. Site preparation.		X	1704.7.1	<input type="checkbox"/>		Field inspection and testing to verify that the site is prepared in accordance with the approved soils report (1802.2).
3. During fill placement.	X		1704.7.2	<input type="checkbox"/>		Review submittals, field testing and inspection. Verify soil types and lift thickness are per contract documents.
4. Evaluation of in-place density.	X		1704.7.3	<input type="checkbox"/>		Field testing. Verify conformance with contract documents.
G. Pile Foundations: Installation and load tests.			1704.8	<input type="checkbox"/>		Includes monitoring the driving of test piles, load testing, production pile installation and the review of as-driven pile survey.
H. Pier Foundations: Seismic Design Category C, D, E, F.			1704.9	<input type="checkbox"/>		

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I. Wall Panels and Veneers: Seismic Design Category E, F.	X		1704.10, 1704.5	<input type="checkbox"/>		
J. Sprayed Fire-Resistant Materials			1704.11	<input type="checkbox"/>		
1. Structural member surface conditions.		X	1704.11.1	<input type="checkbox"/>		Field review of surface conditions prior to application.
2. Application.		X	1704.11.2	<input type="checkbox"/>		Field review during application.
3. Thickness.		X	1704.11.3	<input type="checkbox"/>		Field test.
4. Density.		X	1704.11.4	<input type="checkbox"/>		Collect field sample, test in laboratory.
5. Bond strength.		X	1704.11.5	<input type="checkbox"/>		Field test.
K. Exterior Insulation and Finish Systems (EIFS)		X	1704.12	<input type="checkbox"/>		Field review of application/ installation.
L. Special Cases			1704.13	<input type="checkbox"/>		Applies to alternative materials and systems, when requested by A/E or Building Official. Review system & installation.
M. Smoke Control		X	1704.14	<input type="checkbox"/>		Inspect during ductwork, erection and system testing. Inspect prior to covering (enclosing).
N. Special Inspections for Seismic Resistance: Applicable to specific structures, systems, and components.			1705 1707	<input type="checkbox"/>		Applicability dependent upon Seismic Design Category per 1707.1. Special Inspection requirements specified in 1707.2 through 1707.8.
1. Structural steel	X		1707.2	<input type="checkbox"/>		
2. Structural wood.	X		1707.3	<input type="checkbox"/>		
3. Cold-formed steel framing.		X	1707.4	<input type="checkbox"/>		
4. Storage racks and access floors.		X	1707.5	<input type="checkbox"/>		
5. Architectural components.		X	1707.6	<input type="checkbox"/>		
6. Mechanical and electrical components.		X	1707.7	<input type="checkbox"/>		
7. Seismic isolation system.		X	1707.8	<input type="checkbox"/>		
O. Structural Testing for Seismic Resistance: Applicable to specific structures, systems, and components.			1705 1705.2 1708	<input type="checkbox"/>		For applicability, refer to 1708.1 and 1708.2. Special Inspection requirements specified in 1707.1 and 1707.3 through 1707.6.
1. Testing and verification of masonry materials and assemblies.			1708.1	<input type="checkbox"/>		
2. Reinforcing and Prestressing steel.			1708.3	<input type="checkbox"/>		Applies to concrete and masonry.

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3. Structural steel.			1705, 1708.4	<input type="checkbox"/>		Methods of nondestructive testing and frequencies must be specified for AWS D1.1 to apply.
4. Mechanical and electrical equipment.			1705, 1708.5	<input type="checkbox"/>		Requires certificates of compliance and anchorages inspections.
5. Seismically isolated structures.			1708.6, 1623.8	<input type="checkbox"/>		
P. Structural Observations: Applicable to specific structures based on Seismic Design Category, as defined in Section 1709.			1709.1	<input type="checkbox"/>		To be performed by a Registered Design Professional. This observation is in addition to any special inspections designated in Section 17(BCNYS)
Q. Test Safe Load			1712, 1714	<input type="checkbox"/>		
R. In-Situ Load Tests			1713	<input type="checkbox"/>		
S. Preconstruction Load Tests			1714	<input type="checkbox"/>		To validate design assumptions, where specified by RDP.
T. Wind Requirement Inspection			1706, 1706.1.2	<input type="checkbox"/>		The Registered Design Professional shall provide a Quality Assurance Plan, where required by 1706.1.1.
1. Roof Cladding & Connection				<input type="checkbox"/>		
2. Wall connections				<input type="checkbox"/>		
3. Roof and floor diaphragms				<input type="checkbox"/>		
4. Vertical wind force-resisting systems				<input type="checkbox"/>		
5. Wind force-resisting systems				<input type="checkbox"/>		
6. Fabrication and installation of impact resistant components and assemblies.				<input type="checkbox"/>		
U. Additional Inspections/Tests						
1.	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		
2.	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		
3.	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		
4.	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		
5.	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		
6.	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		
7.	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		

NOTES:

1. RDP to provide reference specification section detailing the requirements for inspections and/or tests and other clarifying notes, as necessary.
2. Commentary/Notes by DASNY are provided for information only and are not intended to provide complete details of the required tests and inspections. Refer to the Building Code of New York State for complete and detailed requirements.